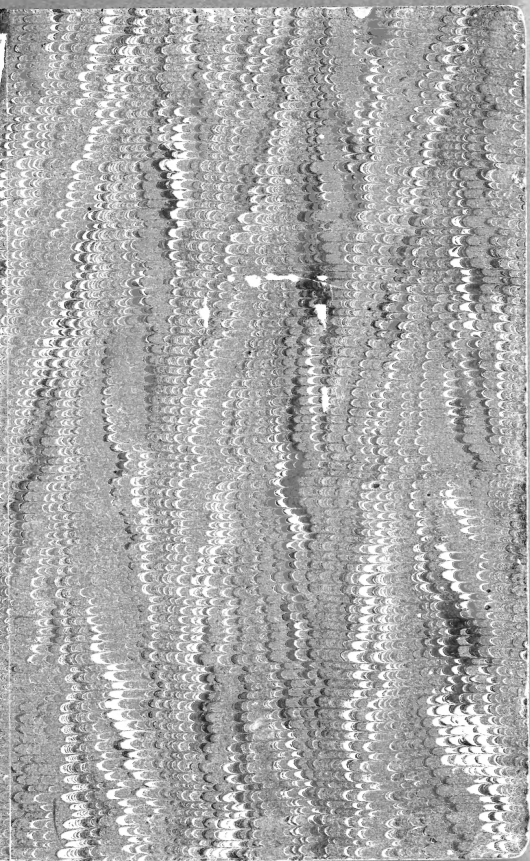


Middle Waihi
Georgia
March 1880







No 7 notes

~~21,710~~

21,710	NSW
25,186	N.S.W.
21,037	N.Z.
22,459	N.Z.
24,825	N.Z.
22,810	N.Z.

Russell Got specimen of *Ranunculus elatior*
Opium lepidophyllum Swamp plant
Chenopodium — *Polygala verticillata*
Pieris Oxalis stricta

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Jan 1879 (?)

R. Southern

Parm. *hirsuta*
Cord. *in* *hirsuta*
Lec. *hirsuta*
Sop. *hirsuta*

Middle Warkato-

Whangape + Warkare - 1st col.

Pirongia ————— 2nd col.

Matamata ————— 3rd col.

Ranunculaceae

Pittasporae

M

✓ x

Aconitum ~~canadense~~
" *heterophyllum*
" *foliolosum*
" *parviflorum*
" *colense*

Myadestes *atrotatus*

Ranunculus *insignis*

" *pusilla*

" *geraniifolius*

✓ x

" *ptarmica*

" *lappaceus*

" *acris*

" *cruciatum*

" *acutis*

" *parviflorum*

Caltha *rostrata*

✓ x

Dianthus *axillaris*

Nasturtium *palustre*

Barbarea *valgaris*

Cardamine *hirsuta*

" *stylota*

Lepidium *oleraceum*

" *incisum*

✓ x

Viola *filiculis*

" *lyallii*

" *cunninghamii*

✓ x

Metreptus *canadensis*

" *macrophyllus*

" *pauciflorus*

✓ x

" *microanthus*

Hymenocallis *crassifolia*

✓

Pittasporum *canadense*

" *colense*

" *patulum*

" *reflexum*

" *rigidum*

" *fasciculatum*

" *crassifolium*

" *umbellatum*

" *eugenioides*

" *canadense*

" *pumila*

Coriaria

Haloragis

M	P		
✓	x	Coriaria	suavefolia
		"	thyrsifolia
		"	angustissima
		Carumichabia	opava
✓		"	pilosa
		"	aristalis
		"	odorata
		"	flagelliformis
		"	fulcea
		Gianthus	piniscus
✓	Xya	Lophora	tetraptera
		Rubus	aristalis y ca
		Potentilla	ruscina
		Cean	urbanum
✓	x	"	parviflorum
✓	x	Acacia	laevis sericea
		"	microphylla
✓	x	Quintinia	serata
		"	elliptica
✓	x	Acacia	benoides
✓		Carpodetus	spatus
		Akama	lanceolata
	x	Heimannia	elyicola
✓	x	"	racemosa
		Lilua	maschata
		"	verticillaris
		"	debilis
		"	perpusata
		Aranea	pectus
		"	pyram
✓		"	spatulata
✓		"	sternata
✓		"	sternata
✓	x	Haloragis	alata
		"	tetragyna
		"	depressa
✓	x	"	muschanta
✓		Myriophyllum	statioides
✓		"	varicifolium
✓		"	robustum
✓		"	pedunculatum

Haloragca

Ficoidia

M P

✓

✓

✓

✓

✓

✓

✓

✓

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✓

✓

✓

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✓

✓

Quercus

maritima

"

praeperens

Catantabrica

serena

Leptodermis

scoparium

Metastictis

sericea

florida

"

lucida

"

albiflora

"

diffusa

"

hypericifolia

"

calensai

"

pyranta

"

lomentata

"

polymorpha

"

serotina

Myrtus

foetida

"

Ralphii

"

obcordata

"

pedunculata

Eugenia

maire

Filixia

excoecata

"

calensai

"

prostrata

Epilobium

serotinum

"

luncooides

"

confertifolium

"

altissimum

"

macrophyllum

"

rotundifolium

"

glabellum

"

melanocaulon

"

tetragonum

"

puberulum

"

puberulum

"

billardierianum

"

paludiflorum

Paspalum

tetrandrum

Lycos

angustatus

Thesimbryanth.

aristata

Tetragonia

expansa

"

trigyna

Umbelliferae

Loranthaceae

W P

Hydrocotyle	stolonata
"	americana
"	asiatica
"	hirsuta
"	dissecta
"	filiformis
"	pterocarpa
"	novae-Helandiae
"	massata
"	myciaphylla
Coroia	trifoliolata
x Prunella	crenata
Spinum	australe
"	filiforme
Eryngium	vesiculatum
Oedemum	Colensoi
Scaphyllum	squarrosa
"	Colensoi
Leucosticum	aromaticum
Angelica	guineensis
"	roseifolia
"	periculata
Spicula	trachiatum
Parax	simplex
"	Edgelyi
"	anomalous
"	caesifolium
"	Lessoni
"	Colensoi
"	arborescens
"	Stuebelii
Schefflera	digitata
Myrica	Stuebelii
Guadalupe	lycea
"	littoralis
Corakia	byddfordensis
"	litorale
Loranthus	Colensoi
"	tetrapetalus
"	terrestris
"	flavus
"	microanthus

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

x

x

x

x

x

x

x

x

x

x

Soranthacea

Composita

m p

✓ x

✓ x

✓ x

✓ x

✓ x

✓ x

✓ x

✓ x

✓ x

✓ x

<i>Lupinus</i>	<i>Antarctica</i>
<i>Pocum</i>	<i>Salicinusoides</i>
<i>Ulcus scinia</i>	<i>moerophylla</i>
"	<i>guerschollia</i>
"	<i>Banksii</i>
"	<i>linariifolia</i>
<i>Caprosma</i>	<i>lucida</i>
"	<i>grandifolia</i>
"	<i>Rauviana</i>
"	<i>petiolata</i>
"	<i>robusta</i>
"	<i>lunum hamii</i>
"	<i>dentifolia</i>
"	<i>spaldingii</i>
"	<i>holundifolia</i>
"	<i>tenueculis</i>
"	<i>bramnosides</i>
"	<i>divaricata</i>
"	<i>parviflora</i>
"	<i>propinqua</i>
"	<i>fulgidissima</i>
"	<i>tolensis</i>
"	<i>cuneata</i>
"	<i>depressa</i>
"	<i>hypericifolia</i>
"	<i>linariifolia</i>
"	<i>repens</i>
"	<i>humilis</i>
<i>Vertera</i>	<i>lunum hamii</i>
"	<i>diachondriifolia</i>
"	<i>setulosa</i>
<i>Galium</i>	<i>tenueculis</i>
"	<i>montanum</i>
<i>Asperula</i>	<i>perpusilla</i>
<i>Olearia</i>	<i>tolensis</i>
"	<i>purpurea</i>
"	<i>nitida</i>
"	<i>dentata</i>
"	<i>ilicifolia</i>
"	<i>lunum hamii</i>

Compositae 1885 2079

Blasia	nummularifolia
"	horsteri
"	albida
"	virgata
"	solandri
Pelmisia	isacana
"	spectabilis
"	longifolia
"	glaucescens
"	munroii
Piptadinia	australis
Saprophora	horsteri
"	petiolata
"	laevata
"	pennatifida
Brachycome	tricolor
"	obovata
Hydno	villosa
Photomela	pusilla
Lotula	coronopifolia
"	australis
"	minor
"	perpusilla
"	draca
"	squalida
"	minuta
Chasmodia	fimbriata
Cassinia	petiolaris
"	leptophylla
"	fulvida
"	vaublancii
Orobanche	glomeratus
"	australis
Raoulia	tenisepalis
"	grandiflora
Graphalium	prostratum
"	bellidoides
"	keriense
"	filicaule
"	luteo-album

Compositae

Epacrideae

M	P		
✓		Graphalium	Coleuspi
✓	x	"	auriculatum
	x	"	collinum
		Erechtites	peruanothoides
		"	serjata
✓		"	scaberrima
		"	quadridentata
		Senecio	capopus
		"	latifolius
		"	lactus
		"	colussai
✓	x	"	odoratus
		"	hastifolius
		"	peruicioides
		"	greyi
		"	velutaminifolius
		"	bedardii
✓	x	Brachyotites	pyranda
✓		Mecynodes	forsteri
		Cypripis	nova-zelandica
✓		Taraxacum	dens-leonis
✓	x	Pteris	hieraoides
		Sorcheris	obtusius
		Forsteria	bedardii
		Helosiphium	Coleuspi
✓	x	Stygidium	graminifolium
	x	Wahlenbergia	gracilis
		"	sarcicola
✓		Coleusoa	physoloides
✓		Labelia	autopsa
✓	x	Crata	angulata
		"	perpusilla
✓	x	Leptera	radicans
✓		Gaulltheria	antipoda
		"	hypericifolia
		"	farinifolia
		"	gypsophylifolia
		Cyathodes	sacrosca
		"	robusta
		"	empetrifolia
		"	Coleusoa

Epacridae

Parapineae

M P

✓ x
✓ x

Leucopogon	paniculatus
Pentachorda	paniculata
Epacris	paniculata
"	pauciflora
"	sinclairii
"	alpina
Archeria	haversii
"	racemosa
Dracoplyllum	californicum
"	strictum
"	squarrotum
"	recurvum
"	longifolium
"	arborescens
"	subulatum
"	uniflorum
Myrsine	salicina
"	brillei
"	divaricata
"	montana
"	humilis
Sambucus	tittoralis
Sapota	costata
Olea	cunninghamii
"	lanceolata
"	montana
Parsonsia	albiflora
"	rosea
Sapnia	depressa
Grevostema	pentastachyum
Gentiana	montana
"	pleurogynoides
"	sacchar
Sebaea	ovata
Myrsotis	spathulata
"	antarctica
"	austalis
"	forsteri
Exarhena	petiolata
"	sacra

✓ x

✓ x
✓ x

✓

✓

✓ x

Convolvulaceae

Scrophulariaceae

m	p		
✓	x	Convolvulus	sepium
		"	spurius
		"	soldanella
		"	marginata
		"	erubescens
		Spergularia	tuberculata
		Psychotria	repens
✓	x	Solanum	paniculatum
		"	hirsutum
		Calceolaria	hirsutaria
		"	repens
		Mimulus	repens
		"	radicans
		Morus	pumilio
✓	x	Gratiola	seidentata
		"	nana
j	x	Gnaphalium	clatroides
		Limnolobos	aquatica
		Veronica	speciosa
j	j	"	macroura
		"	latifolia
		"	parviflora
		"	lymbifolia
		"	macrocarpa
		"	pubescens
		"	diosmifolia
		"	oleosa
		"	laevis
		"	oxyfolia
		"	tetragyna
		"	nivalis
		"	lyallii
		"	ataractae
		"	longata
		"	spatulata
		"	trifolia
		Aurisia	macrophylla
		"	oleosa
		Euphrasia	capitata
		"	cuneata
		"	revoluta
		"	antarctica

Gesneraceae

Monimaceae

M P

<i>Abdothamnus</i>	<i>Solanderi</i>
<i>Othocularia</i>	<i>protrusa</i>
"	<i>nova-Zelandica</i>
"	<i>colensoi</i>
<i>Vitex</i>	<i>littoralis</i>
<i>Speridium</i>	<i>parvifolium</i>
<i>Succumia</i>	<i>officinalis</i>
<i>Myoporum</i>	<i>laetum</i>
<i>Myrtus</i>	<i>canum-hamii</i>
<i>Plantago</i>	<i>amplexata</i>
"	<i>Brownii</i>
"	<i>spatulata</i>
"	<i>Raoulia</i>
<i>Pisonia</i>	<i>Burnouiana</i>
<i>Menopodium</i>	<i>trandrum</i>
"	<i>urbicum</i>
"	<i>glaucom</i>
"	<i>ambrosioides</i>
"	<i>calceolatum</i>
"	<i>pusillum</i>
<i>Sagittaria</i>	<i>maritima</i>
<i>Thiopsis</i>	<i>cineria</i>
"	<i>patula</i>
"	<i>Pillardieri</i>
<i>Sagittaria</i>	<i>australis</i>
<i>Salscoria</i>	<i>indica</i>
<i>Alouanthus</i>	<i>spicatus</i>
<i>Tetranthus</i>	<i>sepioides</i>
<i>Polygonum</i>	<i>minus</i>
"	<i>acutatum</i>
<i>Muhlbeckia</i>	<i>atropurpurea</i>
"	<i>amplexata</i>
"	<i>axillaris</i>
"	<i>ephebroides</i>
<i>Rumex</i>	<i>flexuosus</i>
<i>Tetranthus</i>	<i>capensis</i>
<i>Nesodaphne</i>	<i>parvifolia</i>
"	<i>hawa</i>
<i>Cassytha</i>	<i>paniculata</i>
<i>Phoradendron</i>	<i>nova-Zelandica</i>
<i>Ecdyandra</i>	<i>dentata</i>

✓
✓
✓

x

✓

x

✓

x

✓

x

Proteaceae

Coniferae

W	R		
✓	x	<i>Myrica</i>	<i>secata</i>
✓		<i>Proserpinaca</i>	<i>toro</i>
		<i>Rumex</i>	<i>longifolia</i>
		"	<i>fusca</i>
		"	<i>virgata</i>
		"	<i>obovata</i>
		"	<i>arvensis</i>
		"	<i>brilleana</i>
✗	x	"	<i>prostrata</i>
		"	<i>lyallii</i>
		<i>Rapites</i>	<i>diffenbachii</i>
✗	x	<i>Spatalum</i>	<i>calamagrostis</i>
		<i>Euphorbia</i>	<i>glauca</i>
		<i>Bayu</i>	<i>phoenicea</i>
		"	<i>fusca</i>
		"	<i>solandii</i>
		"	<i>cliffortioides</i>
✓		<i>Epicarparus</i>	<i>macrophyllus</i>
		<i>Vertica</i>	<i>lucida</i>
		"	<i>australis</i>
		"	<i>perox</i>
		<i>Parietaria</i>	<i>debilis</i>
		<i>Australina</i>	<i>pusilla</i>
	x	<i>Elatostemma</i>	<i>rufosum</i>
		<i>Agarina</i>	<i>lucida</i>
		<i>Peperomia</i>	<i>brilleana</i>
		<i>Aper</i>	<i>excelsum</i>
		<i>Stactylanthus</i>	<i>Saylori</i>
		<i>Pyramara</i>	<i>australis</i>
		<i>Libocedrus</i>	<i>domina</i>
		"	<i>bedfordii</i>
	x	<i>Podocarpus</i>	<i>ferruginea</i>
		"	<i>navalis</i>
		"	<i>betula</i>
	x	"	<i>prostrata</i>
	x	"	<i>laevigata</i>
	x	<i>Acrydium</i>	<i>supersumum</i>
		"	<i>colense</i>
		"	<i>latifolium</i>
		<i>Phylladus</i>	<i>trichomanoides</i>
		"	<i>alpinus</i>

Orchidea

Pandanaeae

✓	p	<i>Lasina</i>	<i>pauciflora</i>
	xxx	"	<i>auriculata</i>
	x	<i>Pseudobumelia</i>	<i>auriculata</i>
	x	<i>Bolophyllum</i>	<i>pygmaea</i>
		<i>Sarcobolus</i>	<i>adversus</i>
		<i>Gastrodia</i>	<i>auriculata</i>
		<i>Sciranthus</i>	<i>auriculata</i>
		<i>Cyrtostylis</i>	<i>oblonga</i>
		"	<i>rotundifolia</i>
		<i>Adenochilus</i>	<i>gracilis</i>
		<i>Coussanthus</i>	<i>triloba</i>
		"	<i>oblonga</i>
		"	<i>rotundifolia</i>
✓	x	"	<i>revularis</i>
✓	x	"	<i>macrantha</i>
		<i>Microtis</i>	<i>porrifolia</i>
		<i>Caladenia</i>	<i>minor</i>
		"	<i>Syllis</i>
✓	x	"	<i>bifolia</i>
		<i>Pterostylis</i>	<i>Banksii</i>
		"	<i>graminea</i>
		"	<i>microcarpa</i>
		"	<i>puberula</i>
		"	<i>puberula</i>
		"	<i>puberula</i>
		"	<i>puberula</i>
✓	x	<i>Phlogothus</i>	<i>puberula</i>
		<i>Phelymatia</i>	<i>puberula</i>
		"	<i>puberula</i>
		"	<i>puberula</i>
		"	<i>puberula</i>
		<i>Speranthus</i>	<i>puberula</i>
		<i>Psacophyllum</i>	<i>puberula</i>
		"	<i>puberula</i>
✓		"	<i>puberula</i>
		<i>Ophoceras</i>	<i>puberula</i>
		<i>Levitia</i>	<i>puberula</i>
		"	<i>puberula</i>
	x	"	<i>puberula</i>
		"	<i>puberula</i>
✓	x	<i>Hypoxis</i>	<i>puberula</i>
		<i>Hebeutia</i>	<i>puberula</i>

Lythraceae

Juncea)

✓	✓	x	x	<i>Lypha</i>	<i>angustifolia</i>
✓	x	x	x	<i>Opayannum</i>	<i>lymphae</i>
				<i>Leimna</i>	<i>minor</i>
				"	<i>gibba</i>
✓			W.	<i>Lygiaeum</i>	<i>strandum</i>
			x	<i>Phumofetou</i>	<i>notans</i>
				"	<i>heterophyllum</i>
			x	"	<i>graminifolius</i>
			Wh	"	<i>pectinatus</i>
			Wh	<i>Ruppia</i>	<i>maritima</i>
✓			x	<i>Loboschellia</i>	<i>palustris</i>
	x			<i>Rhyssanthus</i>	<i>scandens</i>
	x			<i>Callixene</i>	<i>camphora</i>
✓	x		x	<i>Cordylone</i>	<i>auriculata</i>
	x			"	<i>Banksii</i>
	x			"	<i>indivisa</i>
✓	x			"	<i>humilis</i>
				<i>Stranella</i>	<i>intermedia</i>
			x	<i>Astelia</i>	<i>sumptuosa</i>
				"	<i>linearis</i>
✓	x			"	<i>serotina</i>
				"	<i>Solanum</i>
				"	<i>Banksii</i>
				<i>Arthropodium</i>	<i>crispatum</i>
				"	<i>candidum</i>
				<i>Arthrocium</i>	<i>hookeri</i>
✓	x		x	<i>Thomium</i>	<i>lanceolatum</i>
✓	x			"	<i>colensoi</i>
✓				<i>Perfoliarium</i>	<i>nova Zeelandia</i>
✓	x			<i>Pecca</i>	<i>sapida</i>
				<i>Juncea</i>	<i>raginatus</i>
			x	"	<i>australis</i>
				"	<i>mauritanicus</i>
✓			x	"	<i>gymnocarpus</i>
✓				"	<i>clausenii</i>
✓			x	"	<i>boissieri</i>
✓				"	<i>holoschrenus</i>
				"	<i>grip. Zealandia</i>
				<i>Juncea</i>	<i>capillarens</i>
				"	<i>campestre</i>
				"	<i>colensoi</i>

Reetacea

Cyperaceae

m p

		xx	<i>Sphocarpus</i>	<i>simplex</i>
			<i>Calorophus</i>	<i>elongata</i>
J	x		<i>Alphium</i>	<i>pallidum</i>
J	x	x	<i>Cyperus</i>	<i>acutellatus</i>
			<i>Schannus</i>	<i>acutellatus</i>
			"	<i>tenax</i>
			"	<i>Scudo</i>
			"	<i>pauciflorus</i>
			"	<i>Brownii</i>
			"	<i>concinus</i>
			"	<i>nitens</i>
			<i>Cyperus</i>	<i>alpina</i>
		x	<i>Scirpus</i>	<i>maritimus</i>
		x	"	<i>lacustris</i>
			"	<i>fragilis</i>
		x	<i>Eleocharis</i>	<i>spicellata</i>
		x	"	<i>acuta</i>
		x	"	<i>gracillima</i>
		x	<i>Scolopis</i>	<i>prostratus</i>
		x	"	<i>prolifer</i>
			"	<i>repens</i>
			"	<i>cartilaginea</i>
			"	<i>archlandica</i>
			"	<i>basilaris</i>
			<i>Desmoschannus</i>	<i>spiralis</i>
			<i>Gambrolytus</i>	<i>dichotoma</i>
			<i>Cladium</i>	<i>glomeratum</i>
			"	<i>reticulatum</i>
		x	"	<i>acutellatum</i>
			"	<i>summi</i>
		x	"	<i>fuscus</i>
			"	<i>strictus</i>
			<i>Gahnia</i>	<i>scholia</i>
			"	<i>ladera</i>
			"	<i>chenscapa</i>
			"	<i>arenaria</i>
			<i>Lepidosperma</i>	<i>tetragona</i>
			"	<i>concolor</i>
			<i>Oreobolus</i>	<i>pumilio</i>
			<i>Urcinia</i>	<i>leptostachya</i>
			"	<i>compacta</i>

Сурасе

Gramineae

	<i>Aucinia</i>	<i>australis</i>
	"	<i>feruginea</i>
x	"	<i>caespitosa</i>
	"	<i>rupestris</i>
x	"	<i>filiformis</i>
	"	<i>Banksii</i>
	"	<i>rubra</i>
	<i>Carex</i>	<i>pyrenasca</i>
	"	<i>acicularis</i>
x	"	<i>inversa</i>
	"	<i>Colensoi</i>
	"	<i>stellulata</i>
	"	<i>terrestris</i>
	"	<i>repens</i>
	"	<i>Gaudichaudiana</i>
x	"	<i>subdola</i>
	"	<i>tinaria</i>
	"	<i>testacea</i>
	"	<i>Raoulia</i>
✓	"	<i>lucida</i>
	"	<i>pumila</i>
✓	"	<i>Forsteri</i>
✓	"	<i>peruviana</i>
	"	<i>trifida</i>
	"	<i>Persiana</i>
✓	"	<i>dissita</i>
	"	<i>Sambertiana</i>
	"	<i>speculans</i>
±✓	<i>Epipactis</i>	<i>Colensoi</i>
x	<i>Microstema</i>	<i>capodes</i>
x	"	<i>avenacea</i>
	"	<i>polynoda</i>
✓	<i>Alopecurus</i>	<i>gemmatulus</i>
	<i>Hieracium</i>	<i>redolens</i>
	"	<i>alpina</i>
	<i>Sparganium</i>	<i>horvuthii</i>
	<i>Paspalum</i>	<i>scrofulatum</i>
	"	<i>distichum</i>
✓	<i>Panicum</i>	<i>subciliatum</i>
x	<i>Isachne</i>	<i>australis</i>
✓	<i>W. Foyia</i>	<i>pungens</i>

Gramineae

			<i>Echinochloa</i>	<i>oratus</i>
		x	<i>Brachypodium</i>	<i>stipoides</i>
			"	<i>coarctata</i>
	x		"	<i>sciurea</i>
			<i>Apera</i>	<i>arundinacea</i>
			<i>Prostachya</i>	<i>elongata</i>
			<i>Hordeum</i>	<i>antarctica</i>
			"	<i>carina</i>
✓	x		"	<i>parviflora</i>
			"	<i>anella</i>
			"	<i>pelosa</i>
			"	<i>bellardieri</i>
			"	<i>setifolia</i>
✓	x		"	<i>quadrisetata</i>
✓	x	x	<i>Arundo</i>	<i>donax</i>
			<i>Panthusia</i>	<i>guthriei</i>
			"	<i>serotina</i>
			"	<i>raoulia</i>
✓	x		"	<i>lunata</i>
			"	<i>arundinacea</i>
		x	<i>Deschampsia</i>	<i>caespitosa</i>
			<i>trisetum</i>	<i>antarcticum</i>
			"	<i>subspicatum</i>
			<i>Glyceria</i>	<i>stricta</i>
			<i>calamagrostis</i>	<i>antarctica</i>
			<i>Poa</i>	<i>imbecilla</i>
			"	<i>perglumis</i>
✓	x	x	"	<i>arvensis</i>
✓			"	<i>arvensis</i>
			"	<i>colensoi</i>
			<i>Festuca</i>	<i>littoralis</i>
			"	<i>scoparia</i>
			"	<i>detruscula</i>
			<i>Bromus</i>	<i>arenarius</i>
			<i>Hieracium</i>	<i>multiflorum</i>
✓			"	<i>scabrum</i>
			<i>Gymnostichum</i>	<i>fractum</i>

Filices

	R		
✓	X	Glechonia	circinata
	X	"	decarpa
		"	Cunninghamii
		"	flabellata
✓	X	Cyathea	acbatoma
	X	"	dentata
		"	fruticulosa
✓	X	"	Cunninghamii
✓	X	"	fruticulosa
✓	X	Alsophila	Colensoi
✓	X	Dicksonia	Squarrosa
		"	Antarctica
✓	X	"	lanata
		Hymenophyllum	tuberosum
		"	unilaterale
		"	membranaceum
✓	X	"	fruticulosa
✓	X	"	multifidum
		"	hirsutum
		"	puberulum
✓	X	"	dilatatum
		"	erectum
✓	X	"	polyanthos
✓	X	"	depressum
✓	X	"	scabrum
✓	X	"	angulosum
✓	X	"	Lyallii ^{flabellata}
✓	X	Trichomanes	reniforme
	X	"	strictum
	X	"	elongatum
✓	X	"	parvifolium
		"	venosum
		"	Colensoi
		Loxsoma	Cunninghamii
		Cystopteris	fragilis
		Parallia	nova-Zelandica
		Utricularia	linearis
	X	"	trichomanoides
✓		Adiantum	crispulum
		"	affine
		"	ethiopicum

Filices

✓		<i>Adiantum</i>	<i>formosum</i>
		"	<i>gymnophyllum</i>
	x	<i>Hypolepis</i>	<i>puberula</i>
		"	<i>tennifolia</i>
		"	<i>nudifolium</i>
		"	<i>distans</i>
✓		<i>Cheilanthes</i>	<i>tennifolia</i>
✓		<i>Pellaea</i>	<i>falcata</i>
✓	x	"	<i>rotundifolia</i>
✓	x	<i>Pteris</i>	<i>acrostichum</i>
	x	"	<i>acrostichum</i>
	x	"	<i>scaberula</i>
	/	"	<i>versata</i>
		"	<i>maculenta</i>
✓	x	"	<i>comans</i>
✓	x	<i>Lomaria</i>	<i>filiformis</i>
✓	x	"	<i>peruviana</i>
		"	<i>fluvialis</i>
		"	<i>montanacea</i>
	x	"	<i>peruviana</i>
	x	"	<i>vulcanica</i>
✓	x	"	<i>elongata</i>
✓	x	"	<i>cardiolata</i>
		"	<i>discolor</i>
		"	<i>attenuata</i>
		"	<i>alpina</i>
✓	x	"	<i>Banksii</i>
✓	x	"	<i>supra</i>
		"	<i>pauciflora</i>
		<i>Doodia</i>	<i>convexa</i>
		"	<i>laetia</i>
		"	<i>caudata</i>
✓	x	<i>Asplenium</i>	<i>obtusatum</i>
		"	<i>lucidum</i>
✓	x	"	<i>flabellifolium</i>
		"	<i>falcatum</i>
✓	x	"	<i>hookerianum</i>
✓	x	"	<i>fulviferum</i>
✓	x	"	<i>falcidum</i>
		"	<i>australe</i>

Filices

Lycopodiaceae

M	P		
✓		<i>Aspidium</i>	<i>aculeatum</i>
		"	<i>Richardii</i>
		"	<i>oculatum</i>
		"	<i>Cystostegia</i>
✓	x	"	<i>aristatum</i>
		"	<i>coriaceum</i>
		<i>Nephrodium</i>	<i>gnomifolium</i>
		"	<i>thelypteris</i>
		"	<i>velutinum</i>
✓	x	"	<i>decompositum</i>
		"	<i>prospiculum</i>
		"	<i>unitum</i>
		<i>Nephrolepis</i>	<i>tuberosa</i>
	x	<i>Thyopodium</i>	<i>australe</i>
	x	"	<i>grammitidis</i>
		"	<i>tenellum</i>
		"	<i>lybaticum</i>
✓	x	"	<i>rugulosum</i>
✓	x	"	<i>peruvianum</i>
✓	x	"	<i>repens</i>
		"	<i>clunipharmii</i>
✓	x	"	<i>puberulum</i>
✓	x	"	<i>patardii</i>
		<i>Gymnogramma</i>	<i>leptophylla</i>
		"	<i>reticulata</i>
		<i>Notholaena</i>	<i>distans</i>
✓		<i>Lodea</i>	<i>Bartara</i>
✓	x	<i>Leptoplex</i>	<i>hymenophylloides</i>
		"	<i>superba</i>
✓	x	<i>Lycopodium</i>	<i>aculeatum</i>
		<i>Schizaea</i>	<i>dichotoma</i>
		"	<i>fistulosa</i>
		"	<i>bifida</i>
		<i>Marattia</i>	<i>salicina</i>
		<i>OphioGLOSSUM</i>	<i>vulgatum</i>
		<i>Botrychium</i>	<i>digitarium</i>
		<i>Phylloglossum</i>	<i>baumianum</i>
✓	x	<i>Lycopodium</i>	<i>varium</i>
		"	<i>Billardieri</i>
		"	<i>denseum</i>
		"	<i>patardii</i>

<i>Lycopodium</i>	<i>commune</i>
"	<i>carolinianum</i>
"	<i>clavatum</i>
"	<i>scariosum</i>
"	<i>volubile</i>
<i>Isosiphon</i>	<i>Forsteri</i>
<i>Pellitum</i>	<i>triquetrum</i>
<i>Asolla</i>	<i>rubra</i>

<i>Ranunculus</i>	<i>Linosella</i>
<i>Ranunculus</i>	<i>tatifolia</i>
<i>Rhizosporum</i>	<i>Huttonianum</i>
"	<i>intermedium</i>
"	<i>ellipticum</i>
"	<i>ovatum</i>
"	<i>Ralphii</i>
"	<i>virgatum</i>
<i>Aristotelia</i>	<i>erecta</i>
<i>Hibiscus</i>	<i>diversifolius</i>
<i>Linum</i>	<i>marginalis</i>
<i>Thalictrum</i>	<i>Mastellii</i>
<i>Hesperis</i>	<i>novalis</i>
<i>Fuchsia</i>	<i>Kirkii</i>
<i>Aspidistra</i>	<i>lyptophyllum</i>
<i>Panax</i>	<i>discolor</i>
<i>Cypripedium</i>	
<i>Ornithoglossum</i>	<i>decussatum</i>
<i>Claria</i>	<i>allomii</i>
<i>Oxothamnium</i>	<i>lanceolatum</i>
<i>Dracophyllum</i>	<i>traversii</i>
<i>Olea</i>	<i>apicalis</i>
<i>Fraxinus</i>	<i>californica</i>
<i>Memecylon</i>	<i>collinsii</i>
<i>Veronica</i>	<i>virgata</i>
<i>Phyllanthus</i>	<i>glauca</i>
<i>Cochlosanthus</i>	<i>cheimanthus</i>
<i>Potamogeton</i>	<i>polygonifolius</i>
"	<i>sp.</i>

778

✓

x

x

Astelia

"

Cyperus

Schizanthus

Scirpus

Jahnia

Cladium

Hymenophyllum

Asplenium

Peltandra

grandis

hookeriana

tenervia

tenellus

tenuis

fluitans

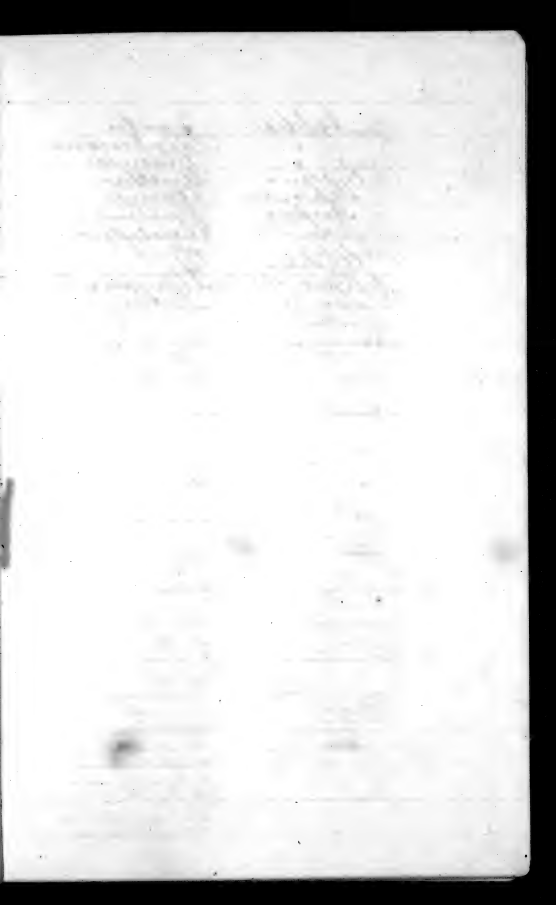
pauciflora

sp

sp

presens

hirsuta



Malvaceae

<i>Ranunculus</i>	<i>acris</i>
<i>Papaver</i>	<i>repens</i>
<i>Fumaria</i>	<i>officinale</i>
<i>Nasturtium</i>	<i>officinale</i>
<i>Barbarea</i>	<i>praecon</i>
<i>Sisymbrium</i>	<i>officinale</i>
<i>Senecio</i>	<i>parviflorus</i>
"	<i>coronopus</i>
<i>Capsella</i>	<i>pinnatifida</i>
<i>Lepidium</i>	<i>hirsutum</i>
"	<i>latifolium</i>
<i>Myosoton</i>	<i>matitimum</i>
<i>Cochlearia</i>	<i>amaracia</i>
<i>Sisyrinchium</i>	<i>nigra</i>
"	<i>arvensis</i>
<i>Brassica</i>	<i>capitata</i>
"	<i>napus</i>
"	<i>oleracea</i>
<i>Raphanus</i>	<i>campestris</i>
<i>Polygala</i>	<i>lutea</i>
<i>Vitis</i>	<i>myrtifolia</i>
<i>Silene</i>	<i>viridifolia</i>
<i>Lycium</i>	<i>quadrifida</i>
<i>Stellaria</i>	<i>media</i>
<i>Aster</i>	<i>hypericifolia</i>
<i>Lagotis</i>	<i>apetala</i>
<i>Cerastium</i>	<i>patula</i>
"	<i>viscosum</i>
<i>Polycarpon</i>	<i>tetraphyllum</i>
<i>Thymus</i>	<i>arvensis</i>
<i>Portulaca</i>	<i>oleracea</i>
<i>Hypericum</i>	<i>androsaemum</i>
"	<i>perforatum</i>
<i>Malva</i>	<i>humifera</i>
"	<i>sylvestris</i>
"	<i>rotundifolia</i>
"	<i>caroliniana</i>

Rosacea

m

	Lavatera	arborescens
	Lychnis	viscaria
	Pelargonium	hercynicum
	Erodium	resicatum
	"	moschatum
	Podalyria	sericea
J	Alex	europeus
	Latus	coriunculatus
	"	major
J	Rufolum	pratense
	"	medicum
	"	glomeratum
S	"	repens
S	"	procumbens
J	"	minor
	Militatus	officinalis
	"	arvensis
J	Androsa	lupulina
	"	maculata
	"	denticulata
	Roralea	pinnata
	Robinia	pseud-acacia
	Vicia	sativa
	"	hirsuta
	"	tetrasperma
	Lathyrus	odoratus
V	Acacia	lupanula
V	"	decurrens
Y	Amigdalus	persica
	Papaver	cerasus
	Piraea	salicifolia
	Rubus	idaeus
	"	rubis
Y	"	idaeus
Y	Fragaria	vesca
	"	elatior
	Hechemilla	arvensis
J	Rosa	canadensis
	"	latifolia
	"	carolina
	"	indica
V	"	multiflora

Lythraeae

m

<i>Lythrum</i>	<i>hyssopifolium</i>
<i>Oenothera</i>	<i>fraxinifolia</i>
<i>Apuntia</i>	<i>stricta</i>
<i>Cucurbita</i>	<i>vulgaris</i>
"	<i>citrullus</i>
<i>Spinum</i>	<i>sp</i>
<i>Rotundifolium</i>	<i>graveolens</i>
<i>Pimpinella</i>	<i>sativum</i>
<i>Peucedanum</i>	<i>saxifraga</i>
<i>Daucus</i>	<i>vulgaris</i>
<i>Pastinaca</i>	<i>carota</i>
<i>Scorilis</i>	<i>sativa</i>
<i>Scandix</i>	<i>nodosa</i>
<i>Cherophyllum</i>	<i>pecten-venosus</i>
<i>Quercus</i>	<i>cerefolium</i>
<i>Galeum</i>	<i>nigra</i>
<i>Mercurialis</i>	<i>aparmia</i>
<i>Fedia</i>	<i>arvensis</i>
<i>Scabiosa</i>	<i>oleivica</i>
<i>Euphorbia</i>	<i>alopurpurea</i>
<i>Bellis</i>	<i>canadensis</i>
<i>Conyza</i>	<i>peruviana</i>
<i>Eclipta</i>	<i>ambigua</i>
<i>Helioscopia</i>	<i>erecta</i>
<i>Phedra</i>	<i>orientalis</i>
<i>Antennaria</i>	<i>villosa</i>
"	<i>arvensis</i>
<i>Achillea</i>	<i>nobilis</i>
<i>Matricaria</i>	<i>millefolium</i>
<i>Chrysanthemum</i>	<i>inodora</i>
<i>Senecio</i>	<i>chamomilla</i>
"	<i>leucanthemum</i>
<i>Astrospermum</i>	<i>segetum</i>
<i>Cryptostemma</i>	<i>vulgaris</i>
<i>Centauria</i>	<i>scandens</i>
"	<i>moniliferum</i>
<i>Carduus</i>	<i>calendulacea</i>
"	<i>niger</i>
"	<i>solstitialis</i>
"	<i>calitrapa</i>
"	<i>laucolatus</i>

Scrophulariaceae

M

<i>Silybum</i>	<i>Marianum</i>
<i>Lappula</i>	<i>communis</i>
<i>Amorpha</i>	<i>pusilla</i>
<i>Cochlearium</i>	<i>intybus</i>
<i>Hypochaeris</i>	<i>glabra</i>
"	<i>radicata</i>
<i>Thrinacia</i>	<i>hirta</i>
<i>Abargia</i>	<i>autumnalis</i>
<i>Mezaspargis</i>	<i>minor</i>
"	<i>porrifolius</i>
<i>Helminthia</i>	<i>echinides</i>
<i>Pouchus</i>	<i>oleraceus</i>
"	<i>arvensis</i>
<i>Yacynacum</i>	<i>deu. - leonis</i>
<i>Borkhausia</i>	<i>taraxicifolia</i>
"	<i>fatida</i>
<i>Cypis</i>	<i>viridis</i>
<i>Ranthium</i>	<i>spinosum</i>
<i>Anagallis</i>	<i>arvensis</i>
<i>Verba</i>	<i>major</i>
<i>Erythrae</i>	<i>centaurium</i>
<i>Cynaglossum</i>	<i>procranthum</i>
<i>Echinum</i>	<i>vulgare</i>
<i>Lithospermum</i>	<i>arvense</i>
<i>Sponcia</i>	<i>chrysorrhiza</i>
"	<i>betula</i>
<i>Asclipias</i>	<i>hiva</i>
<i>Polatum</i>	<i>tuberosum</i>
"	<i>virgatum</i>
"	<i>indicum</i>
<i>Phyphalis</i>	<i>alkekengi</i>
"	<i>peruviana</i>
<i>Capsicum</i>	<i>annuum</i>
<i>Lycopersicum</i>	<i>esculentum</i>
<i>Patula</i>	<i>stramonium</i>
<i>Nicotiana</i>	<i>tabacum</i>
<i>Lycium</i>	<i>barbarum</i>
<i>Verbascum</i>	<i>thapsus</i> 7 ft
"	<i>phoeniceum</i>
<i>Gelsemium</i>	<i>flabrum</i>
	<i>cuneifolia</i>

Scrophulariina

Veronica	arvensis
"	serpyllifolia
"	agrestis
"	trachelium
"	officinalis
Digitalis	purpurea
Linaria	clatune
Veronica	officinalis
Mentha	aquatica
"	piperita
"	viridis
"	dentata
Stachys	arvensis
Nepeta	cataria
Marubium	vulgare
Calamintha	acris
Pyrrhella	vulgaris
Phylolacca	ostandra
Plantago	major
"	media
"	lanceolata
Polygonum	faloppyrum
Rumex	crucigeratus
"	viridis
"	obtusifolius
"	crispus
"	acetosa
"	acetosella
Chenopodium	album
"	viride
"	murale
Euphorbia	viridis
Amaranthus	lividus
"	heraceus
"	plum
"	retroflexus
"	condatus
Euphorbia	catyris
"	perforata
"	hyloscopia
Ricinus	Palma Christi

Graminea

Vertica	urens
"	diarica
Scirp	capica
Dioscorea	alata
Capna	indica
Seymourichium	anceps
Scirp	peruviana
Gnaphalium	hysantherum
Euthalyza	ethiopica
Maer	americana
Asperula	antiquorum
Alcalasia	indica
Richardia	apricana
Sponageton	distachyon
Allyum	vineale
Asphodelus	fistulosus
Asparagus	officinalis
Aspercurus	pratensis
"	arvensis
Valium	pratense
Phalaris	Canariensis
Hakus	lanatus
"	mollis
Panicum	Colinum
"	gibbosum
Setaria	viridis
"	italica
Aristida	calycina
Fraxino	valcaris
Gastidium	cydiferum
Cynodon	dactylon
Legitaria	sanfurnalis
"	humifusa
Eleusine	indica
Aythiaulthum	odoratum
Ura	caryophylla
Avena	sativa
Poa	annua
"	pratensis
Eleusine	tristalis
	Brownii

Gramineae

✓ <i>Poa</i>	<i>minor</i>
✓ <i>Dactylis</i>	<i>maxima</i>
<i>Cynodon</i>	<i>glomerata</i>
<i>Festuca</i>	<i>crispata</i>
<i>Bromus</i>	<i>bromoides</i>
"	<i>erectus</i>
"	<i>sterilis</i>
✓ "	<i>commutatus</i>
"	<i>mollis</i>
"	<i>tectorum</i>
"	<i>racemosus</i>
"	<i>arvensis</i>
<i>Ceratochloa</i>	<i>patulum</i>
<i>Arundinaria</i>	<i>unioloides</i>
✓ <i>Solinum</i>	<i>macrosperma</i>
"	<i>perenne</i>
"	<i>italicum</i>
✓ <i>Lolium</i>	<i>temulentum</i>
<i>Hordeum</i>	<i>lativum</i>
"	<i>lativum</i>
<i>Lepturus</i>	<i>murinum</i>
<i>Anthistria</i>	<i>micurvatus</i>
<i>Splunda</i>	<i>australis</i>
	<i>montica</i>

Potamogeton pectinatus. Abundant in Champagne
Creek & in Lake Champagne - also *Ruppia*
maritima - *Zannichellia palustris* - *Scirpus*
fluitans. - *Potamogeton* - in deep water and
also in the margin of the Lake. - *Sagittaria*
arifolia abundant.

Lake Michigan: - *Sagittaria arifolia* - *Ranunculus*
limosellus - abundant - *Scirpus americanus* -
Ruppia maritima *Leptocarpus filiformis* - *Sagittaria*
arifolia - *Sagittaria arifolia* - *Scirpus fluitans* -

Lake Erie - *Utricularia* - *Scirpus*
fluitans - *Utricularia*

Centropogon - *Microsorus* *fratilis*

Warkare

The two creeks leading from Lake Warkare into the Warkare have their banks densely covered with a vegetation composed of *Lysia latifolia*, *Scirpus maritimus* & *S. lacustris*, *Phormium tenax*, *Cladium articatum*, *Veronica pectata* & *l. sphaecelata*, *Polygonum minus*, *Gleichenia striatoides*, etc. Of flaccid plants, *Potamogeton natans* was the most abundant; other species were *Utricularia rubra*, *Potamogeton robustus*, *Chara* & *Najas*, several species, crossing the lake in a north easterly direction to the Red Bluff. The littoral *Leptocarpus fabryanus* was noticed in great abundance. Small specimens of *Sesuvium portulacastrum* were seen on the shallow water of the Lake - as also a curious *Myriophyllum*. *Pectia angulata*, *Menziesia Cunninghamii*, were not uncommon on the shore. On the extreme eastern side of the lake *Sesuvium radicans* was abundant. On the promontory separating the northern from the southern part of the lake *Deschampsia cespitosa* was most abundant.

Whangape

Whangape Creek is clothed on its banks with the same original plants as the creek from Waitara, but has a far more copious fluviatile vegetation. *Potamogeton natans* was excessively abundant; as also *P. obtusatus*. *P. pectinatus* is also ^{common} abundant towards the upper part of the creek. Charas & Nitellas of ~~several~~ species in many places filled the bed of the creek. A curious feature is the large number of oldeel-weirs, which are built of large stones driven into the bed of the creek, the weir taking the form of the letter V with the apex pointing down stream; a small opening is left in the centre just wide enough to allow boats to pass through. Emerging into the lake, *Ruppia maritima* is abundant in many places, the flower peduncles being often several feet long. - *Sesuvium portulacastrum* is abundant, but of small size. *Myrsophyllum* n. sp. with narrow linear leaves - was abundant in

Shallow water along the margin of the lake; *Ranunculus limosella* was picked in several places. *Sagittaria* *fluitans* appeared to be comparatively common. *Leptocarpus* was again met with, but was not very abundant at the north end of the lake. Other plants seen were *Rorippa angustifolia*, *Ranunculus macrocarpus*, *Eleocharis acuta*, *Cladonia furcata*, *C. articulata*, *Eleocharis spicata*, *Carex subdola* - (extremely abundant) *Ageratum annua*, *Sagittaria lacustris*, *Lythra angustifolia*, etc.

In shallow places in the marshes, especially near the entrance of the Maramara, *Lepidocarpus Piceii* was not uncommon. It was not in full inflorescence.

Porongia

Between the mountain & Alexander fern cliff hills,
with swampy gullies filled with *Raupe cladonia*, and
Hebe, *Samaria flaviatilis* and a *Carex* - *C. Colensoi*?
were picked near the Waipua Bridge. *Hypericum perforatum*
was found from watercourse. Lower part of the forest,
towards the base of the mountain is principally
composed of Tawa - fine full grown tall specimens
mixed with the lower are *Tetrathera*, *Santalum*
Dysoxylum Rewarewa, *Panax arboreum* - undergrowth
of Fern trees, *Alseuosmia*. As the mountain is
ascended *Wernmannia racemosa* - *Dawsonia*
superba was picked in descent places

Perongia

Ridge connecting the Alexandria semicircular with the
Peak proper one. narrow + small - little - vegetation
dwarfed. *Thamnia*, *Saxifraga*, *Heermannia*, *Cypripedium*
puberulum, *Dracopis*, *Fraxinus* (often 15 ft high
6 in diam). *Gnaphalium*, *Littoralis*, *Panicum*, *Sesuvium*
Cypripedium puberulum - underground *Gnaphalium*
n. sp. - *Aster*, *Laminaria* *procera* var. *minor*,
Lupinus *maritima* abundant - *Callitriche* occasionally
met with.

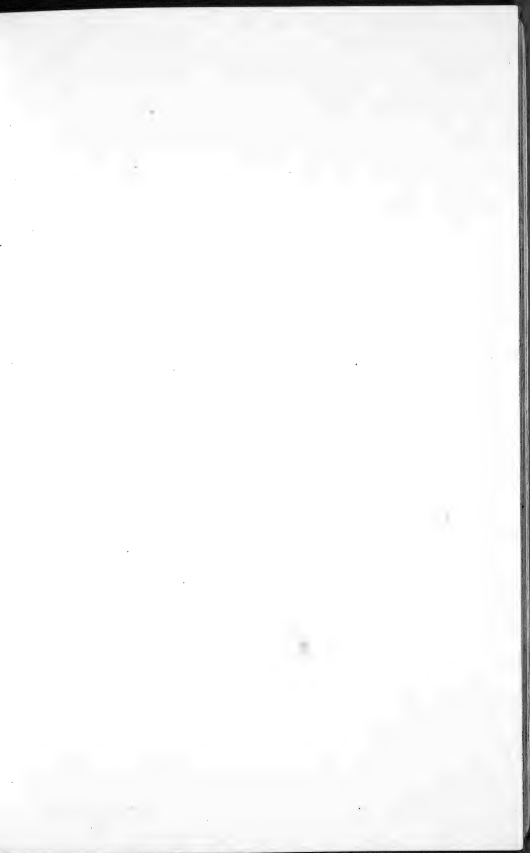
Perongia

Plants on the highest peak. *Cordylus indiviso*, small
 tree, now seen above 10 ft - all under 100 ft. *Phormium*
colensoi, *Coprosma petiolaris*, *Wimmeria racemosa*
Leucospermum, var. *minor*. *Cordylus* *haubertii*,
Hypochaeris radicata (naturalized). *Rubus australis*, 4 ft
Wimmeria *superba* *Fraxinus* *antipoda* *Panax*
Colinus *P. Lincolni* *Leucospermum* *scrota* *Coprosma*
laeta *Drosera* *laeta* *Podocarpus* *totara* *Pteris* *aculeata*
Stachys *hemisphaerica* *Leucospermum* *foeniculatus* *Barbarea* *excorticata*
Fraxinus *altissima* *Epilobium* *puberulum* *Panax* *haubertii*
Platanus *myrsina* *Sabicea* *Hymenophyllum* *polyanthes*
Coprosma *gemma* *Epilobium* *hemisphaerica* *Antler* 4 ft
Hymenophyllum *laetum* *Imperata* *hartii*
Stachys *hemisphaerica* *Alnus* *hemisphaerica*

Mountain Peaks - Canyons - Gullies

Wairere Falls

Sp. of Wairere. *Verdoliva* *caulis* *Josephinum*
Kerria (*Leintonia* *caulis* *annulata*). *Macoduna*
Avenosa — (in high in the stream) *Poncha* *longifolia*
Phormium *Colensoi* *Oxalis* *regalis* *ca.*
Azorella *caulis* — — *Banksia* *humilis* *ca.* *Samoa*
Jovai







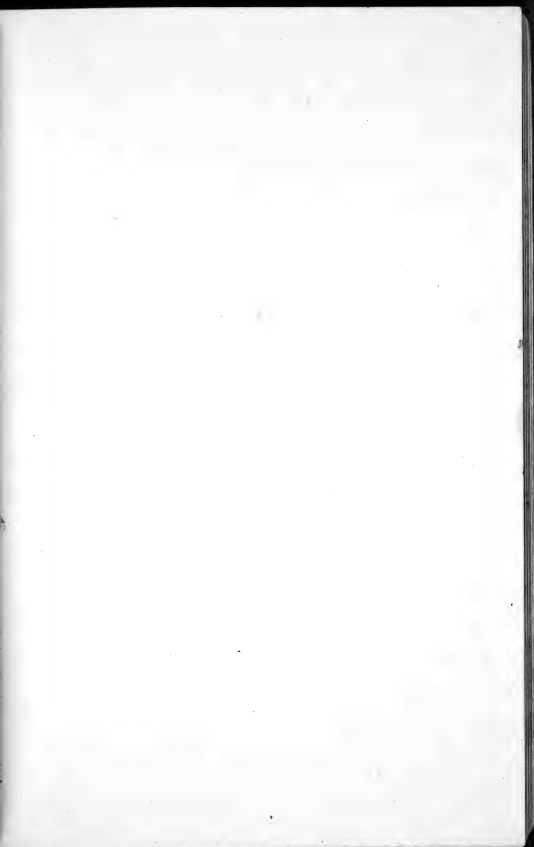


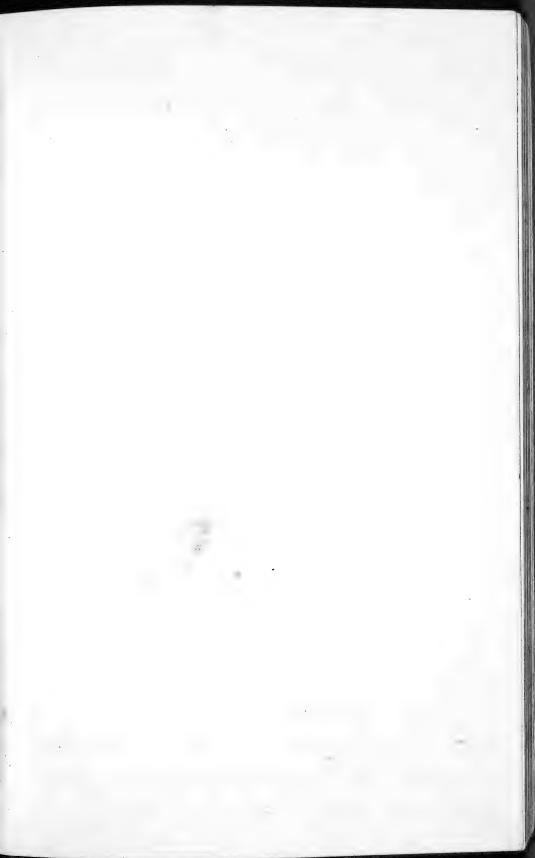








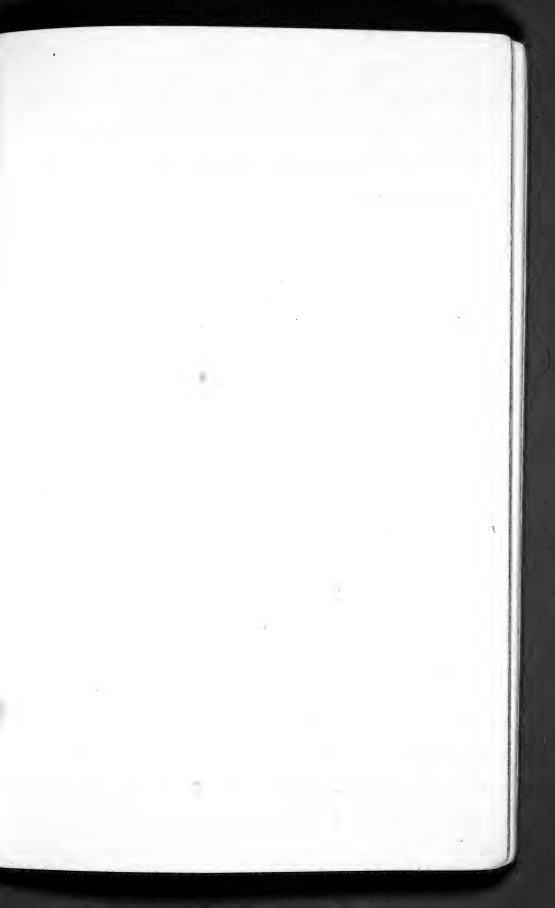




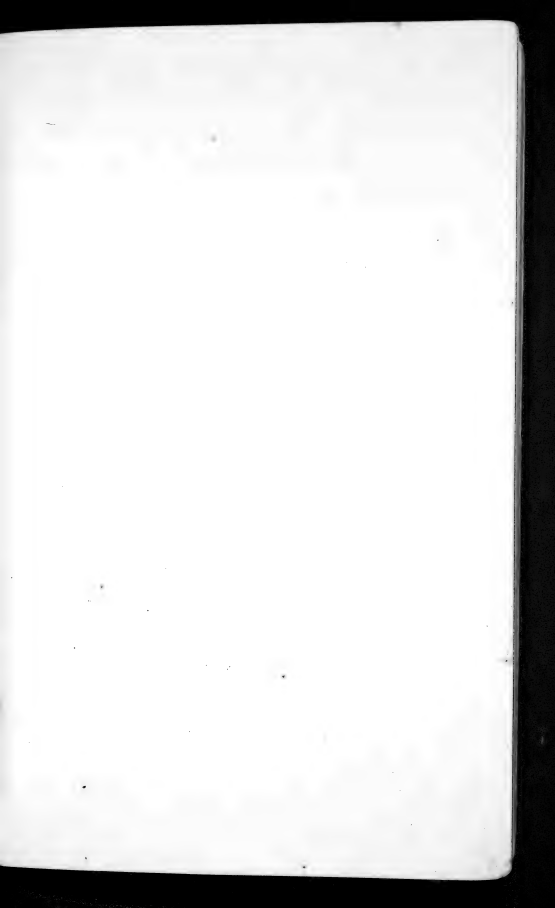










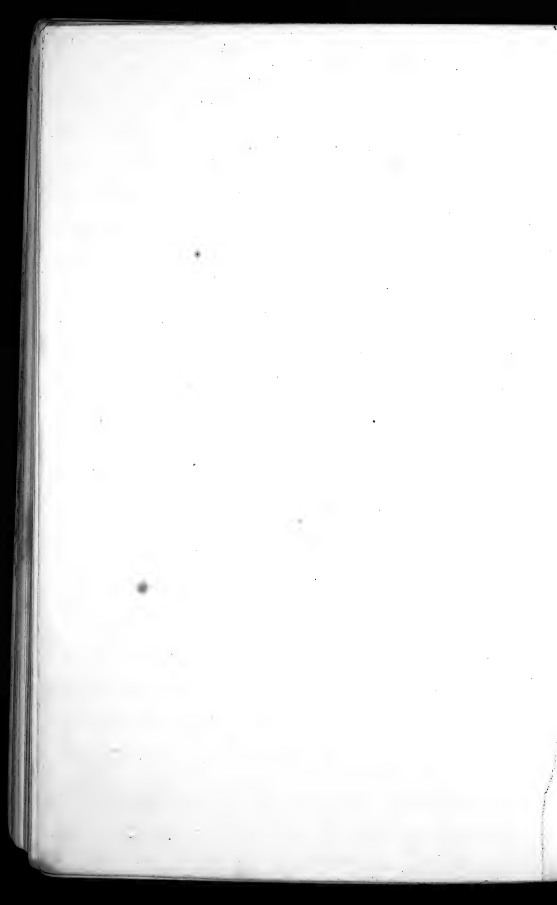


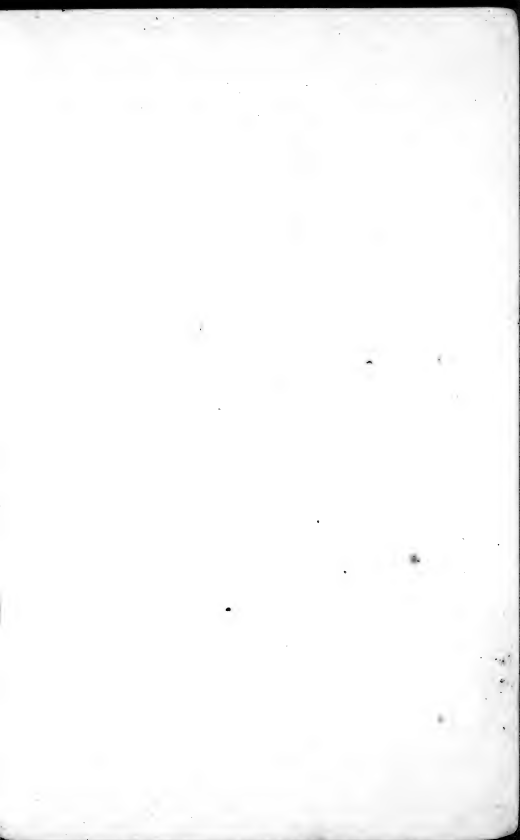












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